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1-15517

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Kathleen J. Moore

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#7  
13Feb02  
R. Tallis

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
ALEKSANDRE SHULGA and  
UDO SCHMALE

} Group Art Unit:

Serial No. }

Filed: }

Examiner:

Filing Under 35 U.S.C. 371 in  
the DO/EO/US off PCT/DE00/00746  
filed 06 MARCH 2000 }

Attorney Docket 1-15517

For: GAS SENSOR AND METHOD FOR  
OPERATING A GAS SENSOR }

September 7, 2001

Box PCT  
Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Honorable Sir:

Pursuant to Section 1.97 of Title 37 of the Code of  
Federal Regulations, and prior to the issuance of a first  
office action, record is hereby made of published prior art  
the United States Patent and Trademark Office may wish to  
consider during examination of the above-entitled

application, which was filed under 35 USC 371. No representation is made or intended that a prior art search was conducted, or that no better art than that listed is available.

<u>U.S. Patent</u>	<u>Date of Issuance</u>	<u>Inventor</u>
4,437,005 B1	March 13, 1984	Ophoff et al
4,914,720 B1	April 3, 1990	Knodle et al
5,070,244 B1	December 3, 1991	Simpson
5,334,536 B1	August 2, 1994	Nonnenmacher
5,464,983 B1	November 7, 1995	Wang
5,608,219 B1	March 4, 1997	Aucremanne
5,734,165 B1	March 31, 1998	Unal et al
5,874,737 B1	February 23, 1999	Bytyn et al

<u>Foreign Country/Patent No.</u>	<u>Date of Publication</u>
Germany DE 30 43 332 A1	July 1, 1982
Germany DE 41 11 187 C2	October 8, 1992
Germany DE 41 19 346 A1	December 17, 1992
Germany DE 44 37 311 A1	April 25, 1996
Germany DE 44 33 336 A1	October 12, 1995
Germany DE 197 35 716 A1	February 4, 1999
European EP 0 503 511 A2	September 16, 1992
European EP 0 512 535 A2	November 11, 1992
European EP 0 794 423 A1	September 10, 1997

Other Prior Art

None.

Copies of the above-cited foreign and U.S. patent documents are enclosed, along with IDS Form PTO/SB/08A. The following patent documents were cited in the International Search Report (copy attached as Exhibit A) completed by the European Patent Office on June 30, 2000, and the International Preliminary Examination Report (copy attached as Exhibit B), both reports of which issued in the corresponding International Application No. PCT/DE00/00746, priority of which is claimed:

US 4,914,720	EP 0 503 511
US 5,608,219	EP 0 512 535
US 5,734,165	DE 30 43 332

The following patent documents were all cited in the earliest claimed priority of the subject application, i.e., DE 199 22 590:

US 5,070,244	DE 197 35 716	DE 41 19 346
US 5,608,219	DE 30 43 332	DE 44 33 336
EP 0 794 423	DE 41 11 187	DE 44 37 311

English text equivalents of the enclosed foreign patent documents are as follows:

US 5,334,536 corresponds to DE 41 19 346;  
US 4,437,005 corresponds to DE 30 43 332;  
US 5,464,983 corresponds to DE 44 33 336; and  
US 5,874,737 corresponds to EP 0 794 423.

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English text Abstracts are attached to German patent documents DE 41 11 187, DE 44 37 311 and DE 197 35 716, as full English translations of these German documents are not readily available at this time to the person making this disclosure.

The following documents are discussed in more detail in the subject specification on the following pages:

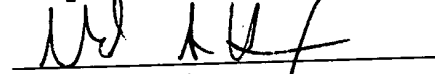
DE 195 25 703 A1 is discussed on pages 1-2;

EP 0 512 535, EP 0 503 511, US 5,608,219, US 5,734,165 and US 4,914,720 are all discussed on page 2 as amended in the Preliminary Amendment being filed concurrently herewith.

As this Information Disclosure Statement is being submitted at the time of filing under 35 USC 371 and prior to a first Office Action, no fee is required.

It is requested that these references be fully considered and made of record in this case.

Respectfully submitted,



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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Complete if Known	
				Application Number	
				Filing Date	
				First Named Inventor	
				Aleksandre Shulga et al	
				Group Art Unit	
				Examiner Name	
Sheet 1 of 1				Attorney Docket Number 1-15517	

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		4,437,005	B1	Ophoff et al	03-13-1984	(Corresp. to DE 30 43 332)
		4,914,720	B1	Knodle et al	04-03-1990	Col. 5, lines 40 - 55
		5,070,244	B1	Simpson	12-03-1991	
		5,334,536	B1	Nonnenmacher	08-02-1994	(Corresp. to DE 41 19 346)
		5,464,983	B1	Wang	11-07-1995	(Corresp. to DE 44 33 336)
		5,608,219	B1	Aucremanne	03-04-1997	Col. 2, lines 27-43; Col. 10, lines 30-38; figures 1,7
		5,734,165	B1	Unal et al	03-31-1998	Col. 3, line 48 - col. 4, line 47
		5,874,737	B1	Bytyn et al	02-23-1999	(Corresp. to EP 0 794 423)

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
		DE	197 35 716	A1	Zoechbauer	02-04-1999		
		DE	30 43 332	A1	Ophoff	07-01-1982	Page 4, line 1 - page 5, line 28; figures 1-4	
		DE	41 11 187	C2	Brown	10-08-1992		
		DE	41 19 346	A1	Nonnenmacher	12-17-1992	(Corresp. to US 5,334,536)	
		DE	44 33 336	A1	Wang	10-12-1995	(Corresp. to US 5,464,983)	
		DE	44 37 311	A1	Sommer et al	04-25-1996		
		EP	0 794 423	A1	Bytyn et al	09-10-1997	(Corresp. to US 5,874,737)	
		EP	0 503 511	A2	Eckles et al	09-16-1992	Page 5, line 58 - page 6, line 11; figure 1	✓
		EP	0 512 535	A2	Culver et al	11-11-1992	Col. 1, line 1 - line 5; col. 4, line 24 - line 37; figure 5	✓

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard 51.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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